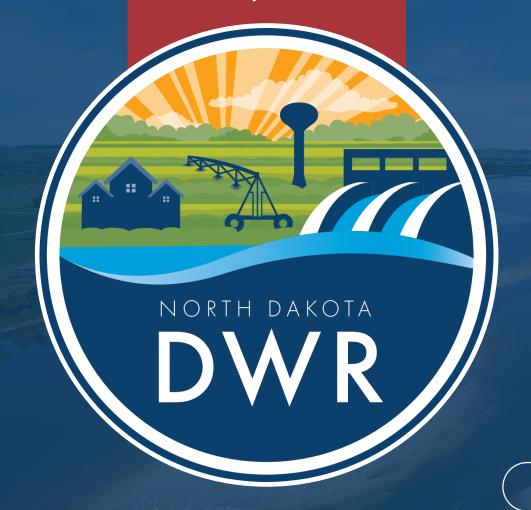
January 11, 2023



AGENCY 84 BUDGET

Senate Appropriations Committee | Senate Bill 2020 | 68th Legislative Assembly





ND CENTURY CODE TITLE 61

Divisions Within DWR Remain The Same Including:

- Administration
- Atmospheric Resources
- Planning & Education
- Regulatory
- Water Appropriation
- Water Development

DEPARTMENT OF WATER RESOURCES

2021 LEGISLATIVE SESSION - HB 1353 RESTRUCTURED THE AGENCY AS THE DWR, APPOINTED A DIRECTOR, & MADE THE AGENCY A MEMBER OF THE GOVERNOR'S CABINET

MISSION, VISION, & VALUES

5-YEAR STRATEGIC PLAN





To responsibly manage North Dakota's water needs and risks for the people's benefit.



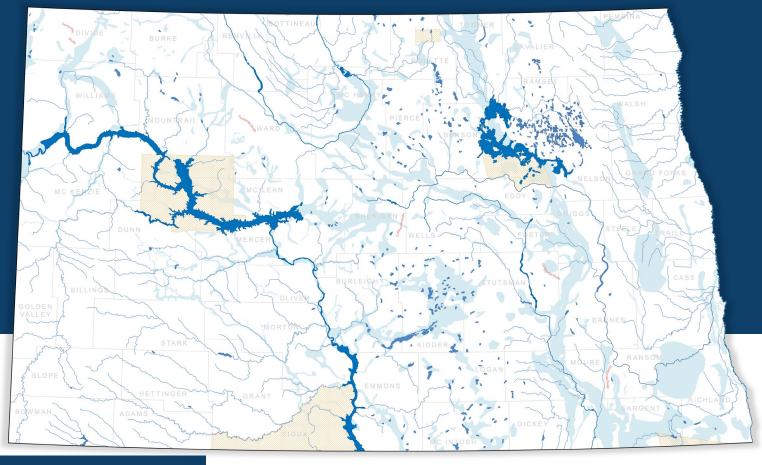
VISION

The Department of Water Resources will sustainably manage and develop North Dakota's water resources for the health, safety, and prosperity of its people, businesses, agriculture, energy, industry, recreation, and natural resources.

VALUES

The Department of Water Resources values fairness, objectivity, accountability, responsiveness, engagement, and credibility. We pledge to use professional and scientific methods to maintain the highest of standards in our delivery of services.

MANAGING NORTH DAKOTA'S WATER RESOURCES

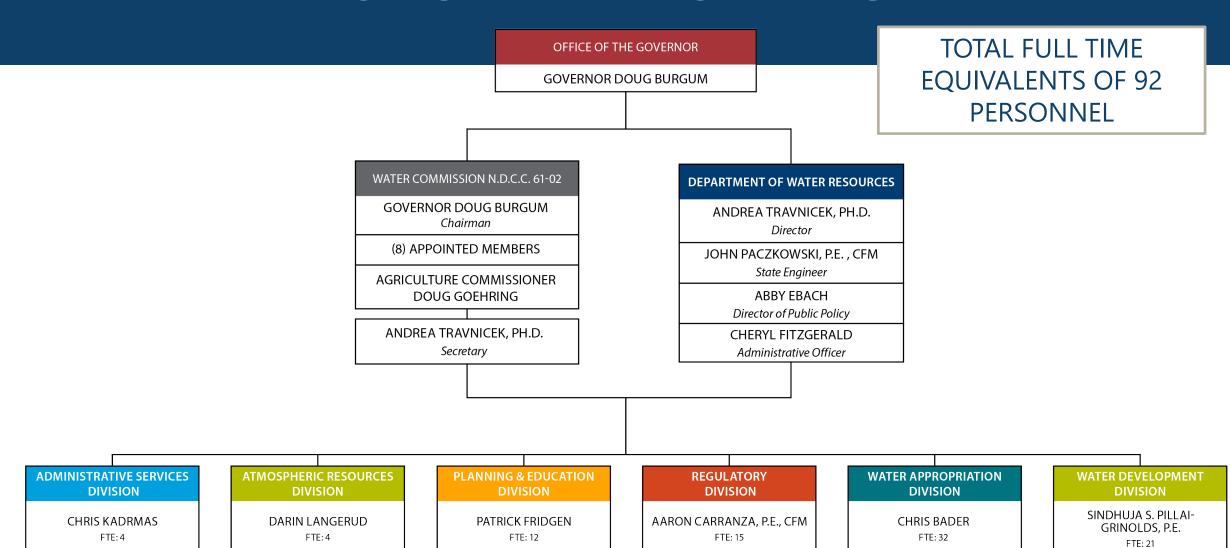


60 Million Acre-Feet Of Water Is Stored In Major Aquifers In ND

Over 7,000 River Miles Are In The State, Including Major Rivers & Tributaries

Seven Of NDs Largest Lakes & Reservoirs Cover 863,000 Acres

DWR ORGANIZATIONAL CHART





WORKFORCE

Asked For 3 FTE
Approved By Emergency Commission
2 FTE + 1 Temp Approved By Budget Section
(March 2022)

Water Appropriation | Regulatory | PRESENS

- Continued Challenges With Salary Equity
- **22.6% Turnover** In 2022
- 20 New Team Members Hired In 2022
- Cooperating With NDSU & Others To Guide Course & Curriculum Focus To Better Prepare Students

WATER COMMISSION



SWC Chair Governor Burgum



Ag. Comm. Goehring









Jason Zimmermar

Mouse River Basin

Jay Volk Lower Missouri River Basin



Richard Johnson

Devils Lake Basin

Connie Ova James River Basin



Michael Anderson Lower Red River Basin

April Walker Upper Red River Basin

DWR DIRECTOR & STATE ENGINEER



DWR DIRECTOR

Andrea Travnicek, Ph.D., Director atravnicek@nd.gov | 701-328-4942

The Director is appointed by the governor, serves as a Cabinet member, provides overall leadership and decision-making, oversees the State Engineer and DWR team members, and serves as Secretary to the State Water Commission.



STATE ENGINEER

John Paczkowski, P.E., State Engineer jpaczkowski@nd.gov | 701-328-4940

ND's State Engineer is responsible for several regulatory functions and responsibilities, including allocation of the state's waters, dam safety, and drainage.

DWR DIVISIONS



ADMINISTRATIVE SERVICES

Chris Kadrmas, Director ckadrmas@nd.gov | 701-328-1956

General support, budget development, records management, human resources, State Water Commission meeting preparation, and accounting.



ATMOSPHERIC RESOURCES

Darin Langerud, Director dlangerud@nd.gov | 701-328-4751

Cloud Modification Program, atmospheric research, data collection, pilot intern program, licenses and permits, and radar operations.

DWR DIVISIONS



PLANNING & EDUCATION

Patrick Fridgen, Director pfridgen@nd.gov | 701-328-4964

Water Development Plan, media relations, public outreach and education, Drought Livestock Water Supply Program, Cost-Share Program, and MR&I Program.



REGULATORY

Aaron Carranza, P.E., Director acarranza@nd.gov | 701-328-4813

Construction and drainage permits, sovereign lands, dam safety, floodplain management, water resource district support, and Silver Jackets Program.

DWR DIVISIONS



WATER APPROPRIATION

Chris Bader, Director cbader@nd.gov | 701-328-4771

Water rights permitting, ground and surface water management, subsurface exploration, PRESENS, data management, and water resource investigations.



WATER DEVELOPMENT

Sindhuja S.Pillai-Grinolds, Director spillai@nd.gov | 701-328-4954

Investigations and surveying, construction operations, flood response and recovery, Southwest Pipeline, Northwest Area Water Supply, Red River office, and Devils Lake outlet operations.

DWR FUNCTIONS & RESPONSIBILITIES

Allocation Of The State's Waters

Cost-Share Funding

Dam Safety

Drainage & Construction Permits

Drone Initiatives

Drought Livestock Program

Floodplain Management

Investigations & Surveys

LiDAR Collections

Map Services

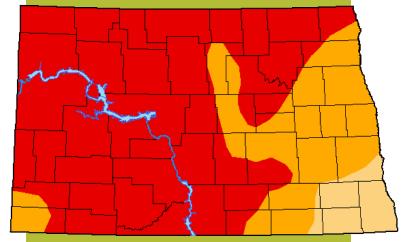
North Dakota Cloud Modification Project

PRESENS

Sovereign Land Management

Water Project Development

ACTIVATION



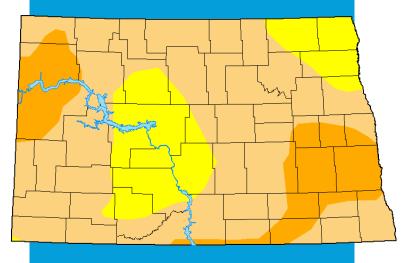
April 2021

DEACTIVATION



September 2022

CURRENT



January 2023

None

D0 (Abnormally Dry)

D1 (Moderate Drought)

D2 (Severe Drought)

D3 (Extreme Drought)

D4 (Exceptional Drought)

DROUGHT DISASTER LIVESTOCK WATER SUPPLY ASSISTANCE PROGRAM

NAWS UPDATE



- Minot WTP Phase II
- Biota WTP Phase I
- South Prairie
 Reservoir & Hydraulic
 Control Structure

2023-2025 REQUEST: \$36M

Recently Completed

Service To Bottineau

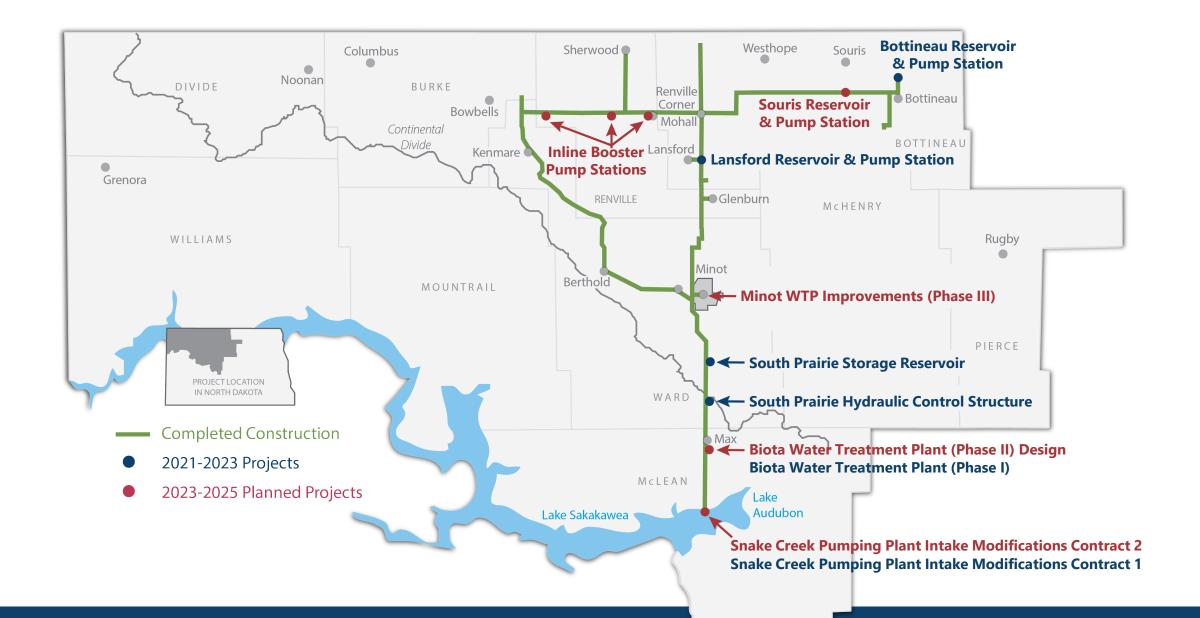
Lansford Reservoir & Pump Station

Snake Creek Intake Modifications

Permitting & Awarded Contracts

Goal

Deliver Missouri Water - End Of 2024



NAWS PROJECT AREAS

SOUTHWEST PIPELINE PROJECT UPDATE

UNDER CONTRACT

- Elevated Tank In City Of Taylor (Substantially Complete)
- Main Transmission Line Parallel Piping (Substantially Complete)
- Supplementary Intake
- Strategic Hydraulic Improvements

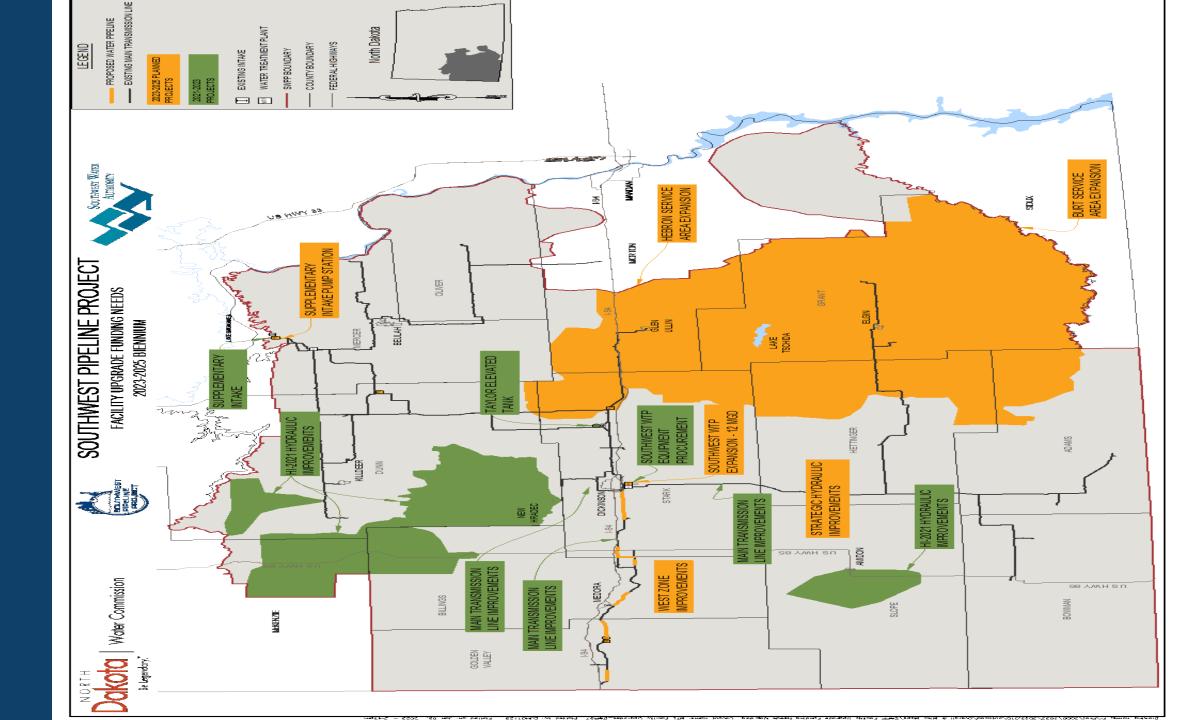
2023-2025 REQUEST: \$131.6M



Future Projects

- Strategic Hydraulic Improvements
- Water Treatment Plant Expansion
- Burt & Hebron Service Area Expansion
- West Zone Transmission Upgrades

SWPP PROJECT AREAS



DEVILS LAKE OUTLETS UPDATE



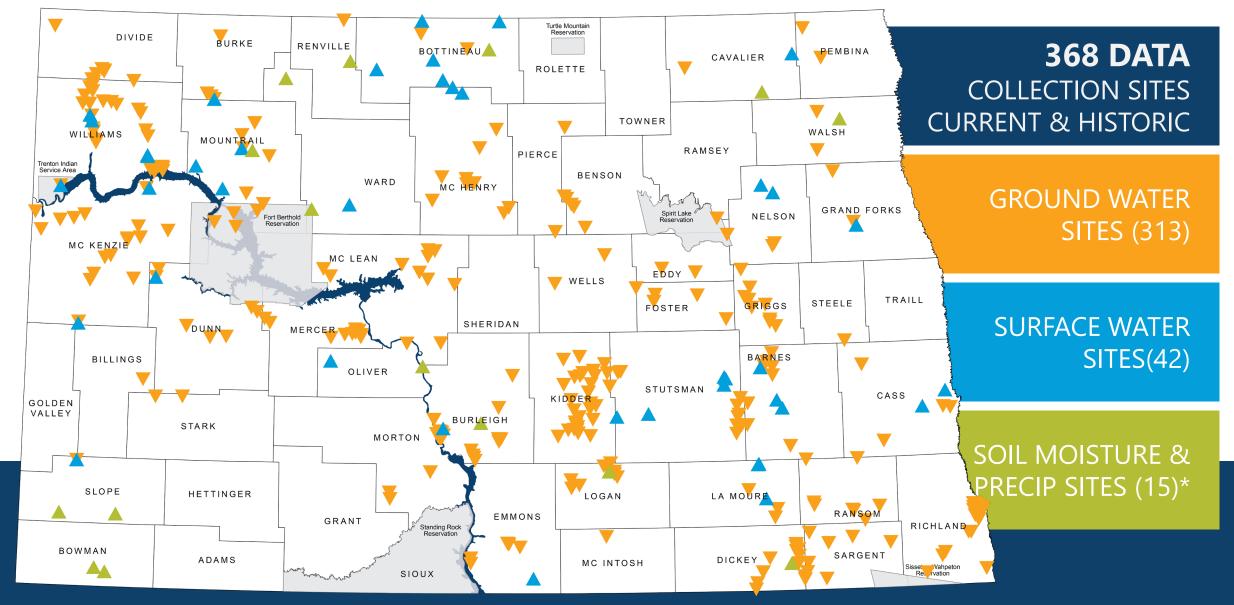
OUTLETS | PUMPS | STRUCTURE

- 60,197 Acre-Feet Pumped In 2022
- Repairs Made To The West End Outlet
 - Terminal Structure
 - Drainpipe (Round Lake Pump #3)
 - Electrical Outage (Round Lake Pump #4)
- Outlet Capital Improvement Plan



- Constantly Collecting Valuable Water Resource Data -Publicly Accessible On Agency's Map Services
- Collect Water Levels, Precipitation, Soil Moisture, Soil Temperature, Barometric Pressure, Air Temperature
- 368 Locations Measured Using PRESENS
- 287 Units Currently Operating
 - Surface Units Are Removed In Winter To Prevent Damage
- 15 Units Currently Have Rain Gauge & Soil Moisture Sensors
- Goal Is 680 Units By 2025
- 2023-2025 REQUEST: \$1,572,800 (ONGOING)

PUSHING REMOTE SENSORS (PRESENS)



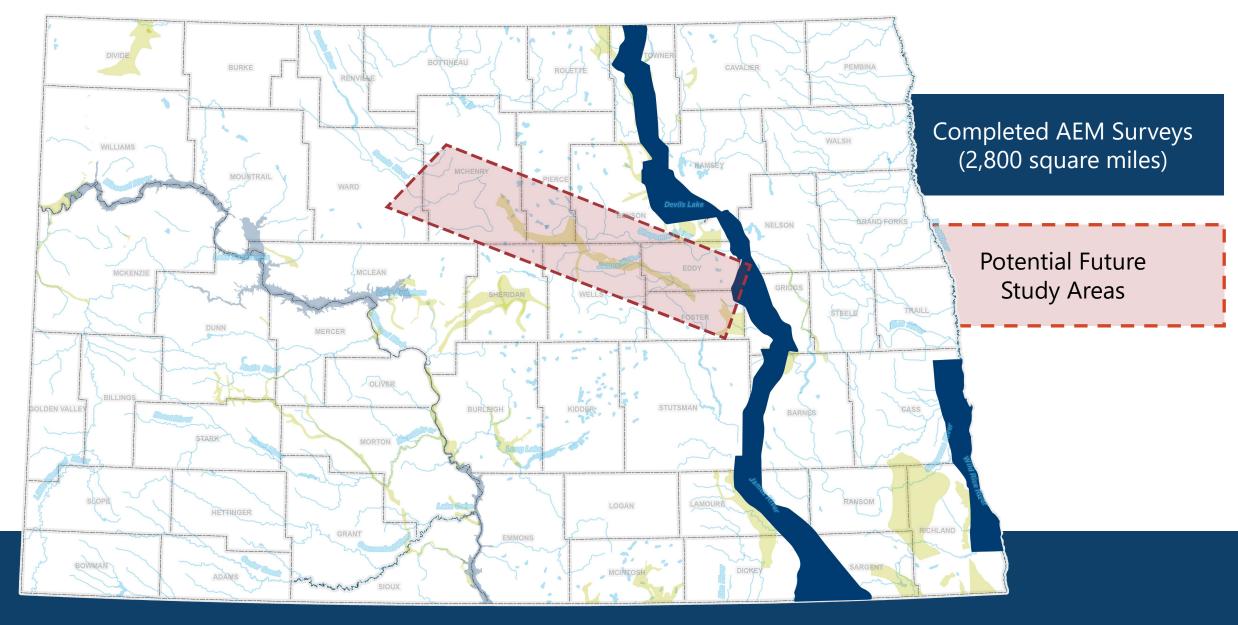
PRESENS LOCATIONS

*Two soil moisture & precip sites are co-located with ground water sites.



AIRBORNE ELECTROMAGNETIC SURVEYS (AEM)

- Provide High-Resolution Maps
 Of Aquifers That Help Water Managers
 Identify & Optimize Local Sources Of Available Groundwater
- 2,800 Sq. Miles Completed With Plans To Expand Data Collection
- 2023-2025 REQUEST: \$750,000 (ONE-TIME)



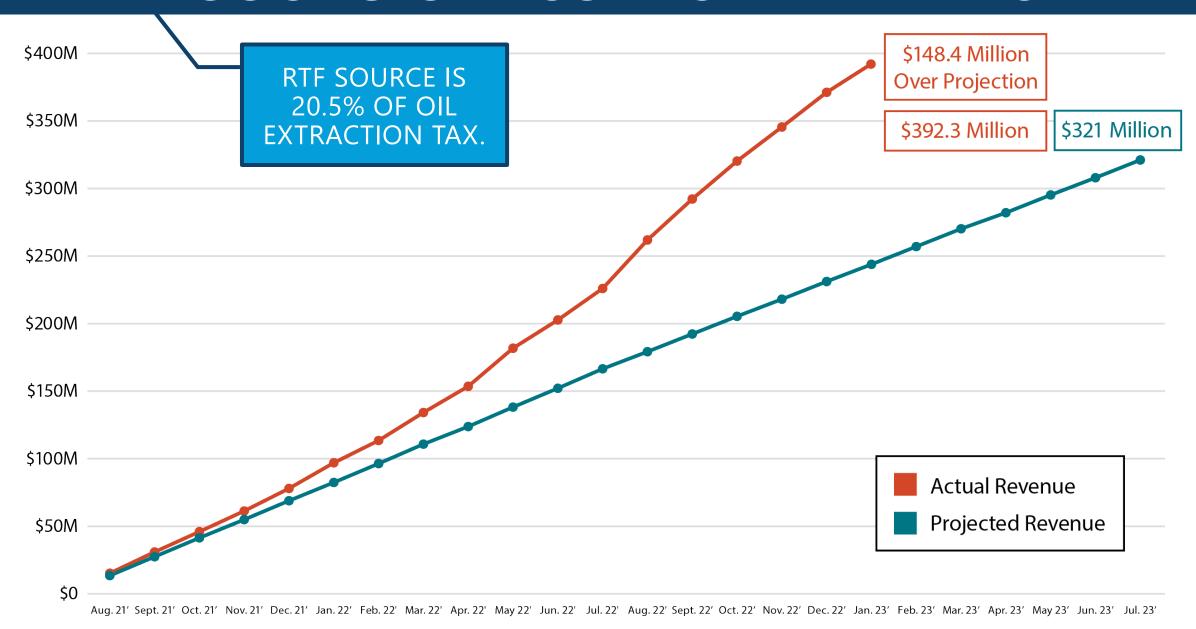
AIRBORNE ELECTROMAGNETIC (AEM) SURVEYS

OTHER DWR HIGHLIGHTS

- Cost-Share Program Policy Update Completed
 2023-2025 Implementation
- 2021-2023 Cost-Share Program
 - \$282M Total Approvals To Date
 - \$181M For Water Supply Projects In 27 Cities & 19 Rural/Regional Systems
 - \$101M For 98 Different Flood Protection, Water Conveyance,
 & General Water Projects
- Secured Almost \$5M In FEMA Grant Funding For LiDAR Data
 To Improve & Modernize Modeling & Engineering Design Data
 Inputs
- Launched A One-Stop-Shop Online Portal Through WebGrants
 For Water Project Sponsors Seeking Grant Funding Or Loans



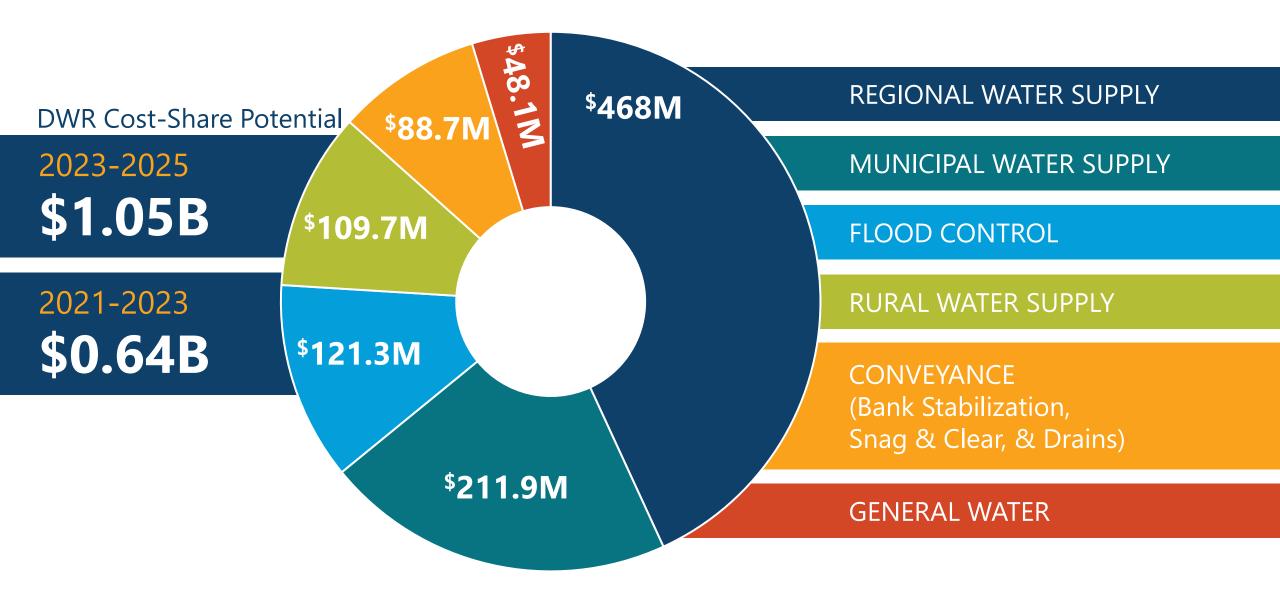
RESOURCES TRUST FUND REVENUE



WATER PROJECTS STABILIZATION FUND



- Created By SB 2345 During 2021 Special Session
- Funded With Resources Trust
 Fund Revenues That Surpass
 Budget Projections
- Transfers To WPSF Stop In February 2023
- Executive Recommendation Includes \$150M
 - \$120M Red River Valley
 Water Supply Project
 - \$30M Western Area Water
 Supply Project (Loan Payoff)



WATER DEVELOPMENT PLAN INVENTORY

2023-2025 PROJECT & PURPOSE FINANCIAL NEEDS SUMMARY

ESTIMATED DWR SHARE BY PRIORITY

	WDP INVENTORY PROJECT NEEDS		
Project Purposes	High Priority	Moderate Priority	Low Priority
Flood Control (Total = \$210M)	\$120.4	\$47.2	\$42.4
F-M Area Diversion	-	-	-
Mandan Flood Risk Reduction	\$11.6	-	-
Mouse River Enhanced Flood Protection	\$76.1	-	-
Other Flood Control	\$19.5	\$0.7	\$0.2
Valley City Permanent Flood Protection	\$13.2	-	-
Water Conveyance	\$0.0	\$46.5	\$42.2
General Water Management (Total = \$48.1M)	\$2.5	\$42.4	\$3.2
Rural Water Supply (Total = \$109.7M)	\$13.7	\$18.8	\$77.2
Water Supply (Total = \$679.9M)	\$467.9	\$1.6	\$210.4
Municipal Water Supply	\$0.0	\$1.6	\$210.4
Northwest Area Water Supply	\$36.0	-	-
Red River Valley Water Supply	\$254.3	-	-
Southwest Pipeline Project	\$131.6	-	-
Western Area Water Supply	\$46.0	-	-
TOTAL (\$1.05B)	\$605	\$110	\$333

WATER DEVELOPMENT PLAN & DASHBOARD



Web-Based Version

Launched & Operational

Dashboard Includes

Interactive Charts

Changing Conditions

Information Can Be **Updated By Staff**

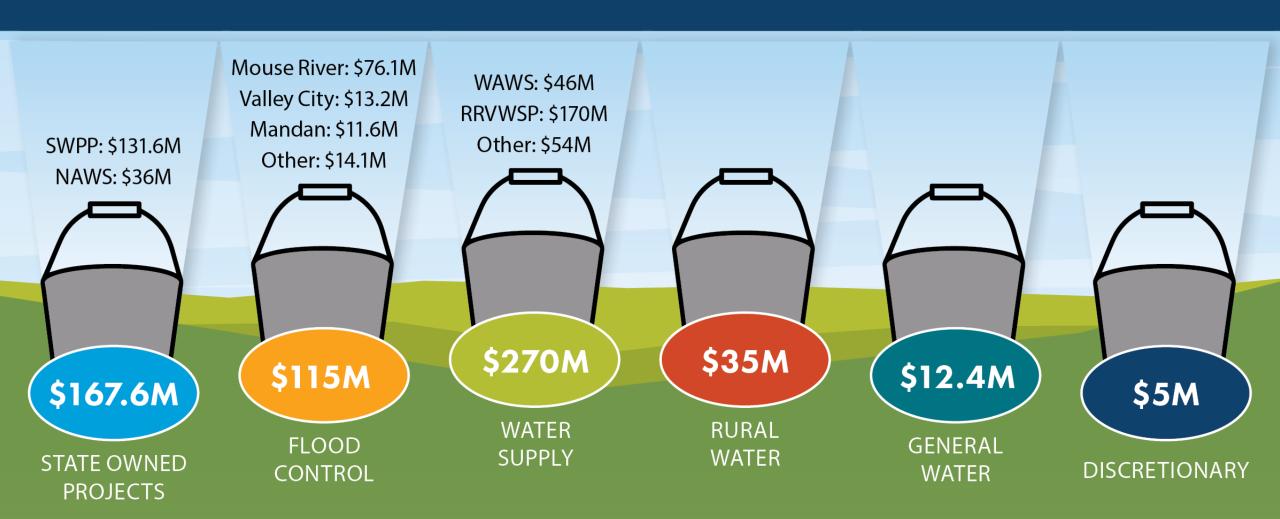
Access Any Time

Phones & Computers



2023-2025 EXECUTIVE BUDGET RECOMMENDATION

2023-2025 PURPOSE FUNDING RECOMMENDATIONS



SB 2020: DWR BUDGET SUMMARY

	2021-2023 Base Level	Increase/ (Decrease)	2023-2025 Executive Rec.
Salaries & Wages	\$20,537,867	\$3,272,011	\$23,809,878
Operating Expenses	\$43,366,550	\$16,112,518	\$59,479,068
Capital Assets	\$98,467,437	\$73,928,907	\$172,396,344
Water Supply Projects	\$125,000,000	\$145,000,000	\$270,000,000
Rural Water Supply	\$59,600,000	(\$24,600,000)	\$35,000,000
Flood Control Projects	\$48,000,000	\$67,000,000	\$115,000,000
General Water Projects	\$14,227,275	\$6,000	\$14,233,275
Discretionary Projects	-	\$5,000,000	\$5,000,000
TOTAL	\$409,199,129	\$285,719,436	\$694,918,565
Full Time Equivalents (FTE)	90	3	93

DWR BUDGET: OPTIONAL REQUESTS

SIIL
1 Full Time Temp - NAWS
Motor Pool Rate Increase
IT Standardization, Applications, & Security
PRESENS Installations & Temp Salaries
Drilling Supply Cost Increases
Navigability Study
AEM Survey Technology
Groundwater Modeling/Analysis Software
Professional Development
Full Time Temp - FTE Conversion
Bowman Radar Replacement
New Drilling Rig
Office Modifications
RiskMAP - *Federal Funding Spending Authority
TOTAL OPTIONAL REQUESTS

2 CTC

REQUESTS

OPTIONAL

\$170,000 \$118,180 \$5,615,764 \$1,572,800 Z \$180,000 ш O M M \$180,000 \$750,000 \$94,665 ш \propto \$80,000 IVE \$61,609 \$1,800,000 \$1,800,000 ш × \$200,000 ш \$100,000*

\$13,496,080

\$773,062

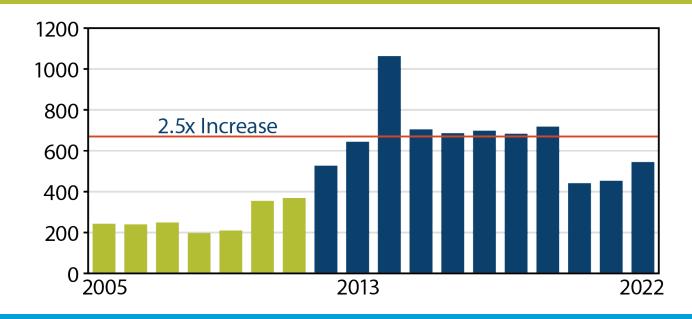
REQUEST FOR 3 FTE

2023-2025 REQUEST: \$773,062

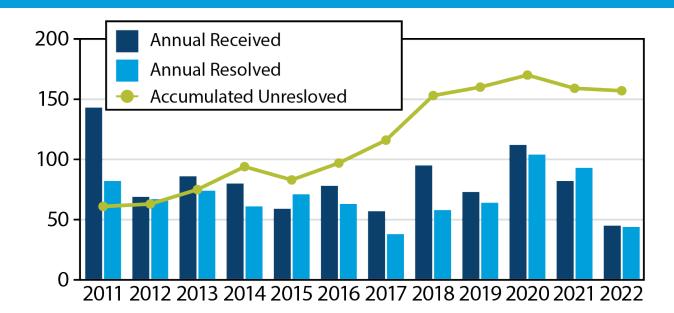
Includes One For The Regulatory
Division To Assist With Permitting &
Two For The Water Appropriation
Division That Would Work On Water
Appropriation & PRESENS System
Support

Assist With Significantly Reducing Delays So Constituents Receive Permits In A Timelier Manner

TEMPORARY WATER PERMIT APPLICATIONS (ANNUAL)



TRENDS IN REGULATORY APPLICATIONS & REVIEWS



IT STANDARDIZATION, APPLICATIONS & SECURITY





To Consolidate & Standardize IT Services Under One Umbrella Through NDIT:

- File Services
- Computational Infrastructure For Scientific Applications
- Big Data Development/Production For Various Data Types
- Big Data Administrative Costs
- Costs Associated With Additional FTE For NDIT
- Business Analysis
- Project Management
- Project Oversight

2023-2025 Request: \$5,615,764

ADDRESSING SALARY CHALLENGES FOR OUR TEAM MEMBERS

\$645K

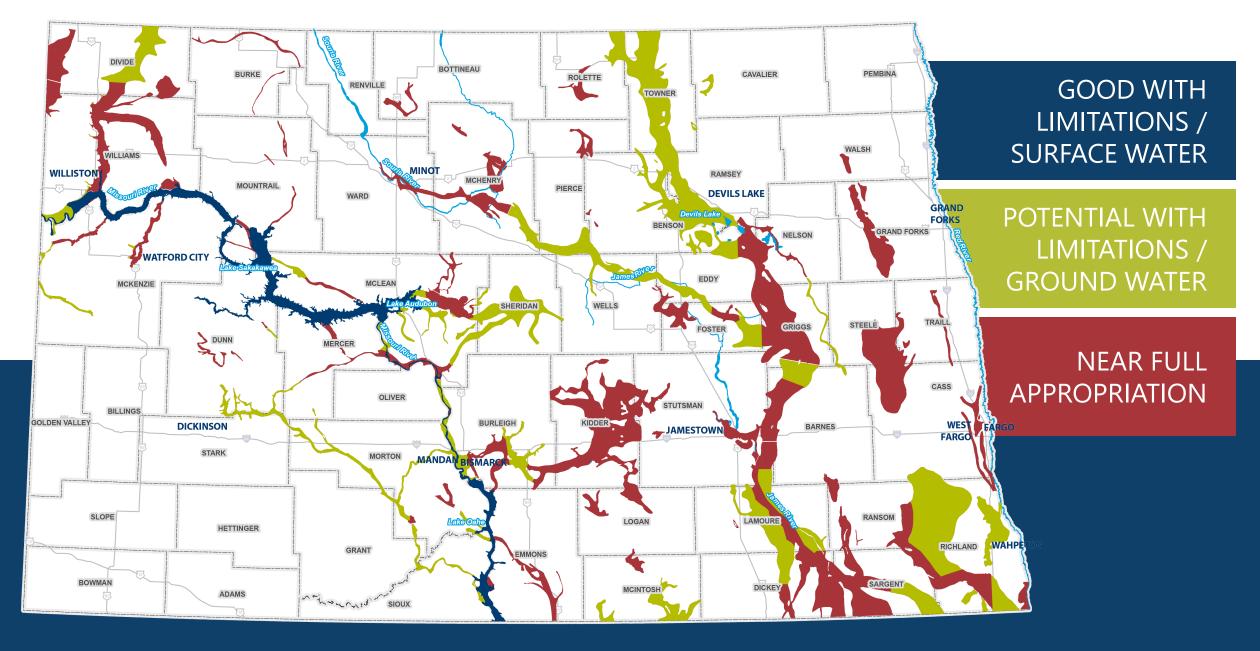
Recommended To Address
Internal Equity & External
Market Factors That Affect
Existing Team Members. This
Would Assist With Reducing
Turn-over & Would Support
Competitive Pay &
Compression Adjustments.

DWR SUPPORTSSENATE BILL 2015

Example:
Hydrologist Positions Are
Well Below Private Sector.



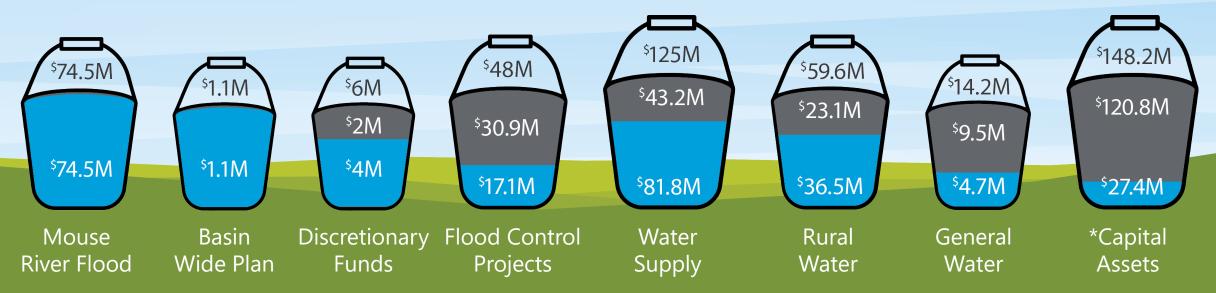
22%



WATER AVAILABILITY POTENTIAL FOR ECONOMIC DEVELOPMENT

2021-2023 PURPOSE FUNDING

UPDATED THROUGH NOVEMBER 2022



UNOBLIGATED

APPROVED

\$240M -\$320M



Federal Funds-State Fiscal Recovery Funds -SB 2345

Spent

*Capital
Assets bucket
includes
\$45.6M line of
credit.

OBJECTIVE 1

Effectively communicate with the public and stakeholders with a primary focus on collaboration and building partnerships.

OBJECTIVE 2

Develop world-class, sustainable, and resilient water development and management practices.

OBJECTIVE 3

Support beneficial use of Missouri River system water and other available water supply sources.

OBJECTIVE 4

Implement innovative ideas, technology, and grow analytic capabilities to improve efficiencies in water management and development.

OBJECTIVE 5

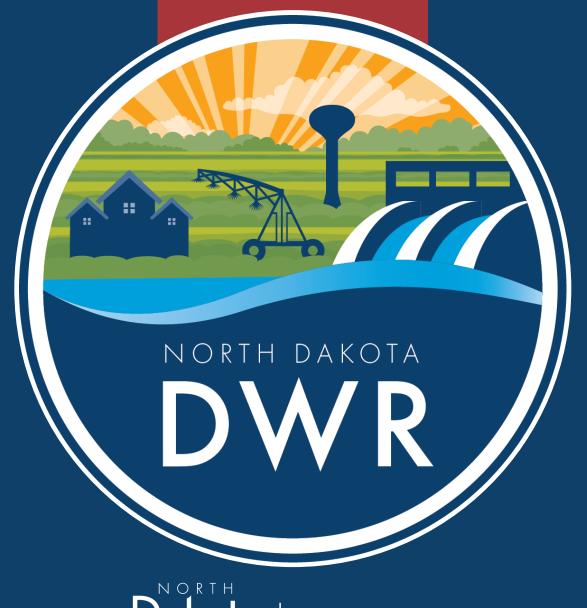
Improve the department's internal resilience and promote a positive culture.

Multiple Goals & Tactics Associated With Each Objective.

THIS BUDGET SUPPORTS...



- Agency Responsiveness & Efficiencies
- Advancement Of Innovative Ideas & Technology
- Critical Water Infrastructure
- Workforce Enhancement, Retention
 Of Talent, Recruiting & Mentoring





THANK YOU



701.328.2750



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dwr.nd.gov



/NDWaterResources